# Technical Memorandum 

To: Alex Smith, Enbridge Energy<br>From: Ryan Erickson<br>Subject SuperiorTerminal Manifold Coridor Area Excavations<br>WDNR BRRIS ID: 0216577298 (Manifold Comidor); 1616560657 (Fac ility-wide)<br>Date: February 19, 2019<br>Project 49161092.06

This memorandum summarizes the environmental response activities performed by Barr Engineering (Barr) at the request of Enbridge Energy (Enbridge) following the discovery of historical hydrocarbon impacts within the Manifold Corridor Area (MCA) at the Enbridge Superior Terminal (Terminal) in Superior, Wisconsin (Figure 1).

## Background

In November of 2018, Enbridge personnel conducting excavation activities associated with Terminal pipeline improvements west of the Terminal Office Building (Figure 2) discovered evidence of historical crude oil impacts (e.g., sheen and product on the surface of excavation water). Upon discovery of the impacts, Enbridge personnel responded to the site to assess site conditions. The excavations were located near historical releases, and no active releases were identified in the work area; therefore, Enbridge classified the impacts as historical. Excavation activities were completed in December 2018 and infrastructure project activities continued into 2019.

Multiple Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) sites located near the project excavations could be the source of the identified historical impacts encountered. Due to the presence of subsurface infrastructure (i.e., preferential migration pathways) and the difficulty in distinguishing potential comingled historical impacts from one another, encountered historical impacts will be grouped under a single WDNR BRRTS site renamed the Manifold Corridor Area (Attachment A). The MCA is defined by the area shown on Figure 2 and the excavations described in this memorandum fall within the MCA boundaries.

## Initial Response Actions

Initially, soil excavated with historical impacts was stockpiled at the Superior Terminal Soil Management Area (SMA) for off-site disposal coordination. When practical, free-product was recovered with a vacuum truck and injected back into the pipeline system. Water with a hydrocarbon sheen removed from the excavation was containerized in a frac tank for off-site disposal coordination. Additional waste disposal actions are discussed in the Material Management section of this memo.

Enbridge Environment requested Barr's assistance with the following activities:

- review historical release information for the site;
- assess, screen and document environmental site conditions during project activities;
- assist with coordination of the off-site management of contaminated soil and water; and
- prepare a memorandum summarizing the response actions and the environmental conditions upon the completion of remedial activities.


## Field Activities

Barr was on site November 1, 8, 15, 16, and 19 and December 4, 2018 and January 16, 2019 to complete the field activities listed above.

On November 19 and December 4, Barr used soil field screening and sampling methods to document the environmental conditions in the excavation, as described in the WDNR Enbridge Superior Terminal Site Investigation and Response Action Plan (SI/RAP) and Addendum. Field screening samples were tested for the presence of organic vapors using a 10.6 eV photoionization detector (PID). Samples were also inspected for the presence of other potential indicators of petroleum impacts such as odor, discoloration and sheen. The PID readings and physical observations were documented on a site investigation field sampling and screening log (Attachment B). Soil with PID headspace readings greater than 10 parts per million (ppm) or other evidence of hydrocarbon contamination (e.g., hydrocarbon odor, sheen, the presence of free product) were considered impacted.

Based on the field screening results, no analytical confirmation samples were collected from the excavation sidewalls or bottom, as discussed below. Waste characterization analytical sample MC Stockpile-1 was collected on November 20 from the impacted soil stockpile for landfill disposal purposes. The sample was submitted to ALS Laboratory (ALS) in Holland, Michigan for analysis of benzene, toluene, ethyl benzene, and xylenes (BTEX) and diesel range organics (DRO). Material management documentation is discussed below and associated documents are provided in Attachment C .

## Results

The following provides a summary of field data collected and documented observations at each of the excavation areas as shown on Figure 2.

- Western Pothole Impacts: Free-product and/or hydrocarbon-impacted water was observed in some of the hydrovac potholes advanced for the pipeline infrastructure supports on November 1 (Photos 1, 2; Figure 2; Attachment B). Following discovery, Enbridge recovered free-product from these potholes with a vacuum truck. By November 8, only a hydrocarbon sheen remained in the potholes with no measurable free-product (Photos 3 and 4).

Based on field observations, the shallow clay soil observed in the sidewalls of the potholes did not appear to be impacted, with the exception of clay in contact with hydrocarbon-impacted water. No evidence of hydrocarbon impacts were identified on the ground surface near the potholes. Deeper soil was not accessible due the size of the pothole and the water level within them. Hydrocarbon-impacted soil or water were not identified by contractors and/or observed by Barr in the additional potholes used for infrastructure positive identification, the larger projectassociated excavation located approximately 30 feet to the southwest or the excavation that cut through the Tank 16 containment berm (Figure 2).

The infrastructure support borings were filled with concrete and the area immediately around it was covered with the foundation structure (Photo 11). Potholes used to identify the location of buried infrastructure were backfilled with clean fill.

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- Road Excavation: An approximately 80 foot long (southwest to northeast) by 40 foot wide (southeast to northwest) by up to 12 foot deep excavation was cut through a Terminal road (Photos 5 through 10; Figure 2; Attachment B) to install new subsurface pipeline infrastructure (Photo 12). Soil in the excavation extents consisted of roadbed material near the ground surface and native clay and sandy construction fill around existing buried infrastructure.

Water with a hydrocarbon sheen and some free-product was observed within the excavation near the eastern half of the road excavation (Photos 5 and 6 ) when buried Terminal infrastructure was uncovered and perched water in surrounding backfill was drained. Water encountered during excavation activities was recovered with the hydrovacuum truck and solidified with the slurry soil. Additional groundwater that entered the excavation during project work was pumped into a frac tank for future off-site treatment, as described below.

No residual soil impacts were identified during final excavation field screening activities (November 19 and December 4), with the exception of a headspace reading of 16.7 ppm in bottom sample $B-1$ ( $8-10$ feet below ground surface). The $B-1$ soil was excavated when the excavation was expanded to the west.

The excavation was still open for infrastructure construction activity on January 16, 2019. The inspector reported that no additional impacts had been observed in the excavation during or since its completion.

Clean fill material will be used to backfill the road excavation and open potholes upon completion of the project work.

## Receptor Survey

No direct contact risks were identified based on field observations and screening results in the accessible excavation and associated potholes. No impacts to surface water were identified and there is little risk for future impacts based on the inferred depth of the residual impacts and location of the site within the Terminal. There are structures within 50 feet of identified impacted areas; however, there is limited human occupancy in those buildings. The buildings have no basements and employees are required to wear fourgas detectors that would alert them to a potentially hazardous atmosphere; therefore, the risk of hazardous vapor accumulation is low.

The groundwater receptor pathway is evaluated on a facility-wide basis at the Superior Terminal. The groundwater monitoring network is sampled on regular basis and results are submitted to WDNR. The nearest downgradient monitoring well is MW-24, which is located 1,100 feet east of the site (Figure 2). There have been no petroleum compound detections in this well recently or historically.

## Material Management

During project activities, soil with evidence of hydrocarbon impacts was segregated from soil without identified impacts when excavated with a backhoe. However, when soil was excavated with hydrovacuum (hydrovac) trucks, segregation was not practical (e.g., if any impacted soil or water was excavated, the entire hydrovac load was classified as impacted). Waste characterization soil sample MC Stockpile-1 was collected from the impacted stockpile and submitted to ALS for analysis of BTEX and DRO.

Enbridge submitted the waste characterization sample data to the VONCO V landfill in Duluth, Minnesota as an addendum to existing profile 18-109-I. The profile addendum request was approved and approximately 273.87 tons of soil were hauled to the facility between November 30 and December 4, 2019. The waste characterization laboratory report, the profile addendum request and approval communication, and a landfill activity summary report are provided in Attachment C.

Hydrocarbon-impacted water that was removed from the Road Excavation to facilitate project activities was containerized in a frac tank and managed off site by OSI Environmental, Inc (OSI). Approximately 12,500 gallons of water was managed off site. An OSI water management summary email and bill of ladings are provided in Attachment C.

## Discussion

Hydrocarbon-impacted soil and water identified within the Manifold Corridor Area during the 2018 infrastructure project appear to be associated with residual impacts from historical crude oil releases. Most of the residual impacts encountered appear to be associated with perched groundwater migrating along buried infrastructure. These inferences are based on the following observations:

- No active hydrocarbon release was identified during the project. Multiple historical releases have occurred in this manifold corridor area and similar historical impacts have been previously identified in this area.
- Hydrocarbon-impacted water entered the project excavations as infrastructure was exposed. The volume of water and degree of impacts observed in the excavation decreased after the excavation was initially pumped down.
- Soil with hydrocarbon impacts appeared to be limited to soil in contact with impacted water. Residual soil impacts were not identified in the final excavation through field observations and field screening.

Based on field observations and field screening activity, there was no evidence of residual soil contamination exceeding WDNR Direct Contact Zone residual contaminant levels ( RCL ) criteria in the final excavation footprint. Buried residual soil contamination is likely present near the new pipeline support foundations and along buried infrastructure in areas adjacent to the Road Excavation; however, excavation of this material is not feasible due to the presence of Terminal infrastructure. In addition, the impacted potholes were covered with structural supports and the pipeline road excavation will be backfilled with clean fill.

There is no identified remaining direct contact risk, surface water risk, or vapor intrusion risk associated with the residual contamination uncounted during this work. The risk to groundwater from the residual contamination will be addressed through the facility-wide hydrogeologic performance standard established for the Superior Terminal.

The WDNR will be notified of any identified change in environmental conditions at the site. As part of the hydrogeologic performance standard, Enbridge will continue to monitor groundwater conditions of the facility and, if evidence of contamination is identified, it will be reported to the WDNR and managed in accordance with the approved Facility-wide SI/RAP and Addendum.

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## Recommendations

Based on the conditions encountered in the field and the Facility-Wide SI/RAP and Addendum site classification, Barr anticipates that the pathway to site closure will be to transfer the MCA site (BRRTS\#: 02-16-577298) to the Superior Terminal Facility-Wide Site (BRRTS\#: 02-16-560657) and no additional response actions or investigation will be required. Upon WDNR approval, Enbridge will prepare an Enbridge Superior Terminal Facility-Wide Continuing Obligations GIS Registry Update and submit it, along with associated fees, to facilitate the modification of the facility-wide continuing obligation registry.

## Attachments:

| Site Photos | 1 through 12 |
| :--- | :--- |
| Figure 1 | Site Location |
| Figure 2 | Site Layout |
| Figure 3 | Receptor Survey |
| Attachment A | WDNR Communication |
| Attachment B | Site Investigation Field Sampling and Screening Logs |
| Attachment C | Material Management Documents |

## Site Photos



Photo 1


Photo 2

Photo 1: Hydrovac potholeslocated west of the Terminal road. The potholes were excavated to identify subsurface infrastructure (boards with "HOLE") and fordrilled-shaft concrete foundations (left side of photo). Evidence of hydrocarbon impacts were identified in some of the potholes. Photo taken facing east on $11 / 1 / 2018$.
Photo 2: Pothole located west of the Terminal road with product on the surface of the groundwater. Photo taken on 11/1/2018.


Photo 3
Photo 3: Infrastructure support borings (blue tubes) for drilled-shaft concrete foundations, located west of the Terminal road. The tubes will be filled with concrete. Photo taken facing north on 11/8/2018.
Photo 4: Groundwater with a hydrocarbon sheen in one of the drilled-shaft concrete foundation borings. Photo taken on 11/8/2018.


Photo 5: Project excavation on east side of road. Water with a trace a mount of product is shown on the left side of the photo and in Photo 6. Photo taken facing southeast on 11/15/2018.
Photo 6: Hydrocarbon-impacted water in the east half of the Road Excavation. Photo taken on 11/15/2018.


Photo 7
Photo 7: Final exc avation extents. Photo taken facing northwest on 12/4/2018.
Photo 8: Final exc avation extents. Photo taken facing southeast on 12/4/2018.


Photo 9


Photo 10

Photo 9: Final exc avation extents. Photo taken facing northeast on 12/4/2018.
Photo 10: Westem end of the final excavation extents. Photo taken facing northeast on 12/4/2018.


Photo 11


Photo 12

Photo 11: Infrastructure support foundations wrapped in black plastic. Photo taken facing northeast on 11/19/2018.
Photo 12: New pipelines installed in the roadway comidor. Photo taken facing east on 1/16/2019.



Site Location
=-=- Terminal Property Boundary


Figure 1
SITE LOCATION
MANIFOLD CORRIDOR EXCAVATION SUPERIOR TERMINAL

Enbridge Energy, L.P
Superior, Wisconsin



Historical Release Location
Potholes
Excavation Extent
E-=-3 Drilled Shaft Borings/Foundations
Hydrocarbon Impacts Identified
$\square$ Facility Wide Area with potential residual impacts
Closed BRRTS Site Area with potential residual
impacts
(8) Monitoring Well
—— Pipeline Infrastructure
_- $=$ Terminal Property Boundary


Douglas County Imagery Circa May, 2016
Figure 2
SITE LAYOUT
MANIFOLD CORRIDOR EXCAVATIONS

## SUPERIOR TERMINAL

Enbridge Energy, L.P.
Superior, Wisconsin


site Location
(8) Enbridge Monitoring Well

-     -         - Receptor Buffers
—— Enbridge Pipelines
_-- Terminal Property Boundary
- Watercourses

Wisconsin Wetland Inventory
Emergent/wet meadow

Filled/drained wetlandForested
Open Water
Scrub/Shrub


1,500

Feet
1 Inch = 1,500 Feet
Figure 3
RECEPTOR SURVEY MANIFOLD CORRIDOR EXCAVATION SUPERIOR TERMINAL Enbridge Energy, L.P. Sunerior. Wisconsin
ENBRIDGE

## Attachment A WDNR Communication

Ryan E. Erickson

| From: | Sager, John E - DNR [John.Sager@wisconsin.gov](mailto:John.Sager@wisconsin.gov) |
| :--- | :--- |
| Sent: | Wednesday, December 19, 2018 2:17 PM |
| To: | Ryan E. Erickson |
| Cc: | Alex.Smith@enbridge.com; Lynette M. Carney |
| Subject: | RE: Manifold Corridor Area |

Ryan,

I am asking Kathleen to change the name BRRTS ID 02-16-577298 to Enbridge Superior Terminal - Manifold Corridor. I have tracked the 2/5/2014 Technical Memorandum under this BRRTS number. As we discussed the boundaries of this ERP site should be based on investigation results from the various areas of contamination you are attributing to this release and not arbitrary polygons. We discussed this area would be depicted in an addendum to the $2 / 5 / 14$ report and incorporated into the Facility Wide Database package when submitted. For future contamination detected within this area of contamination is reported or referenced please reference this BRRTS name and number.

Thanks

## We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

## John Sager

Phone: (715) 392-7822
John.sager@wisconsin.gov

From: Ryan E. Erickson [RErickson@barr.com](mailto:RErickson@barr.com)
Sent: Wednesday, December 19, 2018 2:09 PM
To: Sager, John E - DNR [John.Sager@wisconsin.gov](mailto:John.Sager@wisconsin.gov)
Cc: Alex.Smith@enbridge.com; Lynette M. Carney [LCarney@barr.com](mailto:LCarney@barr.com)
Subject: Manifold Corridor Area

John,
Per our conversations, the proposed next steps for the Manifold Corridor area include the following:

1. Change the BRRTS site name from Pipe Rack to Manifold Corridor. The proposed Manifold corridor area is shown in the image below.
2. Prepare a Facility-Wide Continuing Obligations GIS Registry Update the references and available data from the sites within the boundary.

Please let me know if you have any questions.

Happy Holidays,
Ryan


## Ryan E. Erickson, PG

## Senior Geologist

Duluth, MN office: 218.529.7112
fax: 218.529.8202
cell: 612.418.0166
rerickson@barr.com
WWw.barr.com


If you no longer wish to receive marketing e-mails from Barr, respond to communications@barr.com and we will be happy to honor your request.

Attachment B
Site Investigation Field Sampling and Screening Logs
49161092.06003001

Superior terminai-nemodji Corridor
SITE INVESTIGATION FIELD SAMPLING AND SCREENING LOG
Location: Milepost or Facility 700 mk 13-16 nomadic Corridor. Sw of monitold 213
Equipment used: $\qquad$ -ionization detector with 10.6 av lamp

Background Headspace: $\qquad$ ppm
Date:
Sample Nomenclature (Location - sample type - \#): $\qquad$
Soil Sample Types: $\mathrm{R}=$ Removed Sample; $\mathrm{S}=$ Sidewall Sample; $\mathrm{B}=$ Bottom Sample; Stockpile $=$ Stockpile Sample
$100 \rho 0 m=102$ Calibration Time:
$\qquad$ $\frac{11 / 1 / 18}{12}$

|  |  |  | Soil |  |  | Headspace |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

SITE SKETCH: north is up; excavation extents \& depths, impacted areas, sample locations, borings, wells, structures, utilities, natural features...

1 inch/grid = feET
Main food

: pipe

Siflontact-xavin

- boning hows filed with Contaminated $\mathrm{H}_{2} \mathrm{O}$
- Hydrovae, and dispose in spa Contamination slurry bins

SITE LAYOUT
Location: Milepost or Facility
Manifold 211 ENB Superior Terminal
Barr Personnel: $\qquad$ MJP 11/16/2018

$\qquad$ Was a GPS used to document the location of site features? YES
$\qquad$
SITE SKETCH: north is up; DRAW (to scale) AND LABEL THE LOCATION OF THE FOLLOWING SITE FEATURES, if applicable: release location, maximum extent of release impacts, roads, structures, pipelines and pipeline infrastucture, excavations, stockpiles, borings, wells, water tankers/frac tanks, roll-off containers, equipment staging areas, municipal utilities (electric, water, sewer...), culverts, natural features (water bodies, forested areas...), surface water drainage pathways/direction, other site features $\square$


SITE NOTES/LEGEND: Hydrocarbon impacted sail and water dis Covered in excavation on $11 / 15 / 2018$

- Froe product of served flouting on wurerwithin extenuation. Sheen also observed on saturated soils surface in extenuation and s to et pile
$-G^{h}$ of standing water - light hydrocarbon odor from ext can at ion
- Cuater from dewatering being pumped into Fractank $\# 5$. Soil(solid) Eeingbrought to bay 20 3 3 of $\operatorname{SMA}$

Client: Erbridy - Superior Term. Date: (1//19) 18
Location: Manifold Corrid $\qquad$ Sampler: $\qquad$
$\qquad$
Sample Nomenclature (Location - sample type - \#):
R = Removed S = Sidewall B = Bottom Stockpile = Stockpile

| Sample ID | Depth (FT) | Time (milltary) | Soil <br> Type <br> (uscs) | Color/ Discolor | Odor/ Sheen | Headspace Reading (ppm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Example: Stockpile-1 | 4 | 16:30 | CL | Reddish brown | $\frac{\text { Petroleum/ }}{\text { Rainow }}$ | 275 |
| S-1 | 0-2 | 1455 | CL | $\frac{\text { Restiss oraun }}{\text { None }}$ | wan/wone | 0.8 |
| S-2 |  | 1 | CH | $1$ |  | 1.1 |
| S-3 |  |  | Sc | 1 |  | 0.8 |
| S-4 |  | 1 | SW | Broun/monc |  | 0.9 |
| $5-5$ |  | 1505 | GW |  | $\underline{+}$ | 0.8 |
| 5-6 |  | 1 | CL | $\bar{I}$ | $\frac{\text { Slign peraed }}{\text { a }}$ | $\mathrm{Pr}^{+0.90 .7}$ |
| S-7 |  | 1 | SP | 1 | $\text { Non/ } 10 \mathrm{sec}$ | $8.70 .9$ |
| $s-8$ | $\underline{L}$ | $\underline{\square}$ | SW | Brow/were | 1 | 0.7 |
|  |  |  |  |  |  |  |
| $B-1$ | 8-10 | 1515 | CH | $\begin{gathered} \text { Reastriperse } \\ \hline \text { None } \end{gathered}$ | $\frac{p e r r a}{5 \sin +2 r a t}$ | 16.7 |
| $\beta-2$ |  |  | CL |  |  | 1.7 |
| B-3 | , |  | Sp | Boownon | $N \cdot n / / / \sin$ | 0.6 |
| $B-4$ | $\underline{L}$ | $\underline{L}$ | SW | 1 | $\frac{\sin 3+2+200}{2 x^{2} y}$ | 1.4 |
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$$

Size Figure Revised 12-20-18 JET
SITE INVESTIGATION FIELD SAMPLING AND SCREENING LOG Location: Milepost or Facility Supenur Timanial -Momitold Corridor Equipment used: $\varnothing / D$ _ionization detector with $10,6 \mathrm{eV}$ lamp Sample Nomenclature (Location - sample type - \#): $M C-B$ ( Bethema) mC-S-Sidewsi
Soil Sample Types: $\mathbf{R}=$ Removed Sample ; $\mathbf{S}=$ Sidewall Sample $\mathbf{B}=$ Bottom Sample ; Stockpile $=$ Stockpile Sample
$\qquad$


## Attachment C Material Management Documents

Ryan E. Erickson

| From: | Chris Guillemette [cguillemette@voncousa.com](mailto:cguillemette@voncousa.com) |
| :--- | :--- |
| Sent: | Tuesday, November 27, 2018 2:12 PM |
| To: | Ryan E. Erickson |
| Cc: | Alex Smith |
| Subject: | RE: 18-109-I Addendum Report |

Your good to haul in.

From: Ryan E. Erickson [RErickson@barr.com](mailto:RErickson@barr.com)
Sent: Tuesday, November 27, 2018 1:20 PM
To: Chris Guillemette [cguillemette@voncousa.com](mailto:cguillemette@voncousa.com)
Cc: Alex Smith [alex.smith@enbridge.com](mailto:alex.smith@enbridge.com)
Subject: RE: 18-109-I Addendum Report

Yes. I believe there is 50-100 yards at the Superior Terminal and the project is ongoing. With this approval, Enbridge will likely start hauling soon.

```
    Ryan E. Erickson,PG
    Senior Geologist
    Duluth, MN office: 218.529.7112
    fax: 218.529.8202
    cell: 612.418.0166
    rerickson@barr.com
    www.barr.com
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From: Chris Guillemette [cguillemette@voncousa.com](mailto:cguillemette@voncousa.com)
Sent: Tuesday, November 27, 2018 1:03 PM
To: Ryan E. Erickson [RErickson@barr.com](mailto:RErickson@barr.com)
Cc: Alex Smith [alex.smith@enbridge.com](mailto:alex.smith@enbridge.com)
Subject: RE: 18-109-I Addendum Report

Yes. Do you have more material to come?

Chris

From: Ryan E. Erickson [RErickson@barr.com](mailto:RErickson@barr.com)
Sent: Tuesday, November 27, 2018 1:00 PM
To: Chris Guillemette [cguillemette@voncousa.com](mailto:cguillemette@voncousa.com)
Cc: Alex Smith [alex.smith@enbridge.com](mailto:alex.smith@enbridge.com)
Subject: 18-109-I Addendum Report

Chris,
Can you please add this lab report to the VONCO V 18-109-I waste profile? Thank you.

Ryan E. Erickson, PG<br>Senior Geologist<br>Duluth, MN office: 218.529.7112<br>fax: 218.529.8202<br>cell: 612.418.0166<br>rerickson@barr.com<br>www.barr.com



If you no longer wish to receive marketing e-mails from Barr, respond to communications@barr.com and we will be happy to honor your request.

From: Chris Guillemette [cguillemette@voncousa.com](mailto:cguillemette@voncousa.com)
Sent: Monday, October 22, 2018 10:55 AM
To: Ryan E. Erickson [RErickson@barr.com](mailto:RErickson@barr.com)
Cc: Alex Smith [alex.smith@enbridge.com](mailto:alex.smith@enbridge.com)
Subject: approval

Ryan,

Please see attached approval.

Thanks,

## \#\#|VONCO

## Chris Guillemette

Vice President
Main: 763-262-8662
Mobile: 612-221-0785
Fax: 763-262-3299
VONCOUSA.com

October 22, 2018

Enbridge Energy
Alex Smith
2800 E $21^{\text {st }}$ Street
Superior, WI 54880

## RE: 18-109-I/Superior Terminal - Nemadji Corridor (Contaminated Soil)

Alex,

Please be advised that the above described waste material is acceptable for up to $\mathbf{1 0 0 0}$ /yards disposal at the Vonco V Waste Management Campus Facility in Duluth, MN. The waste material is acceptable per Vonco V (SW-536) Minnesota Pollution Control Agency Industrial Solid Waste Management Plan.

The referenced waste must maintain consistency with what was originally submitted on the waste profile. Vonco V Waste Management Campus must be contacted immediately for any changes in material composition or process generation as further testing and analysis may apply. The term of the approval is 3 years and will expire on $10 \backslash 15 \backslash 2021$.

Additionally, acceptance is subject to the following conditions:

- The material will be absent of free liquids and must meet the paint filter test.
- A signed waste manifest with the correct profile number shall accompany each load delivered to The Vonco V Waste Management Campus.
- All hauling will be in compliance with the Federal and State D.O.T regulations.

Thank you for choosing Vonco V Waste Management Campus. We appreciate your business. If you have any questions or concerns please feel free to contact me at: 612-221-0785.

We look forward to working with you,


Vonco V, LLC
Vice President

27-Nov-2018

Ryan Erickson
Barr Engineering Company
4300 Market Pointe Drive
Suite 200
Minneapolis, MN 55435

Re: Manifold Corridor Response (49161092.06)
Work Order: 18111489

Dear Ryan,

ALS Environmental received 1 sample on 21-Nov-2018 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12 .
If you have any questions regarding this report, please feel free to contact me:
ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185
Sincerely,


Electronically approved by: Ehrland Bosworth
Ehrland Bosworth
Project Manager

## Report of Laboratory Analysis

| Client: | Barr Engineering Company |  |
| :--- | :--- | :--- |
| Project: | Manifold Corridor Response (49161092.06) | Work Order Sample Summary |
| Work Order: | $\mathbf{1 8 1 1 1 4 8 9}$ |  |


| Lab Samp ID | Client Sample ID | $\underline{\text { Matrix }}$ | Tag Number | $\underline{\text { Collection Date }}$ | $\underline{\text { Date Received }} \quad \underline{\text { Hold }}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $18111489-01$ | MC Stockpile-1 | Soil |  | $11 / 20 / 201811: 20$ | $11 / 21 / 201809: 30$ |


| Client: | Barr Engineering Company | QUALIFIERS, |
| :--- | :--- | :--- |
| Project: | Manifold Corridor Response (49161092.06) | ACRONYMS, UNITS |
| WorkOrder: | $\mathbf{1 8 1 1 1 4 8 9}$ | ACP |


| Qualifier | Description |
| :---: | :---: |
| * | Value exceeds Regulatory Limit |
| ** | Estimated Value |
| a | Analyte is non-accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| Hr | BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference $>40 \%$ |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| X | Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. |
| Acronym | Description |
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |
| Units Reported | Description |
| \% of sample | Percent of Sample |
| $\mu \mathrm{g} / \mathrm{Kg}$-dry | Micrograms per Kilogram Dry Weight |
| mg/Kg-dry | Milligrams per Kilogram Dry Weight |


| Client: | Barr Engineering Company |  |
| :--- | :--- | :--- |
| Project: | Manifold Corridor Response (49161092.06) | Case Narrative |
| Work Order: | 18111489 |  |

Samples for the above noted Work Order were received on $11 / 21 / 18$. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.
Volatile Organics:
No deviations or anomalies were noted.

Extractable Organics:
No deviations or anomalies were noted.

Wet Chemistry:
No deviations or anomalies were noted.

ALS Group, USA

| Client: | Barr Engineering Company |  |
| :--- | :--- | ---: |
| Project: | Manifold Corridor Response (49161092.06) | Work Order: 18111489 |
| Sample ID: | MC Stockpile-1 | Lab ID: 18111489-01 |
| Collection Date: | $11 / 20 / 201811: 20$ AM | Matrix: SOIL |


| Analyses | Result | Qual | MDL | PQL | Units | Dilution <br> Factor | Date Analyzed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DIESEL RANGE ORGANICS BY GC-FID |  |  | PUBL-S |  | Prep: PUBL-SW-141/ <br> 11/26/18 |  | Analyst: RP |
| DRO (C10-C28) | 7.0 |  | 0.56 | 5.6 | mg/Kg-dry | 1 | 11/26/2018 14:37 |
| VOLATILE ORGANIC COMPOUNDS |  | Method: SW8260C |  |  | Prep: SW5035 / 11/21/18 |  | Analyst: AK |
| Benzene | 11 | J | 6.2 | 37 | $\mu \mathrm{g} / \mathrm{Kg}$-dry | 1 | 11/21/2018 22:00 |
| Ethylbenzene | 34 | J | 7.7 | 37 | $\mu \mathrm{g} / \mathrm{Kg}$-dry | 1 | 11/21/2018 22:00 |
| m,p-Xylene | 91 |  | 17 | 73 | $\mu \mathrm{g} / \mathrm{Kg}$-dry | 1 | 11/21/2018 22:00 |
| o-Xylene | 15 | J | 14 | 37 | $\mu \mathrm{g} / \mathrm{Kg}$-dry | 1 | 11/21/2018 22:00 |
| Toluene | U |  | 10 | 37 | $\mu \mathrm{g} / \mathrm{Kg}$-dry | 1 | 11/21/2018 22:00 |
| Xylenes, Total | 110 | J | 32 | 110 | $\mu \mathrm{g} / \mathrm{Kg}$-dry | 1 | 11/21/2018 22:00 |
| Surr: 1,2-Dichloroethane-d4 | 109 |  |  | 70-130 | \%REC | 1 | 11/21/2018 22:00 |
| Surr: 4-Bromofluorobenzene | 103 |  |  | 70-130 | \%REC | 1 | 11/21/2018 22:00 |
| Surr: Dibromofluoromethane | 91.4 |  |  | 70-130 | \%REC | 1 | 11/21/2018 22:00 |
| Surr: Toluene-d8 | 96.1 |  |  | 70-130 | \%REC | 1 | 11/21/2018 22:00 |
| MOISTURE |  |  | SW3550 |  |  |  | Analyst: RBS |
| Moisture | 9.2 |  | 0.025 | 0.050 | \% of sample | 1 | 11/21/2018 16:46 |

Client:
Work Order:
Project: $\quad$ Manifold Corridor Response (49161092.06)

| Batch ID: 128428 | Instrument ID GC8 |  | Method: PUBL-SW-141 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MBLK | Sample ID: DBLKS1-128428-128428 |  |  | Units: $\mathbf{m g} / \mathrm{Kg}$ |  |  | Analysis Date: 11/26/2018 02:08 P |  |  |  |
| Client ID: |  | Run ID: GC | 181126A | Seq | No: 5402 | 837 | Prep Date: 11/26/2018 |  | DF: 1 |  |
| Analyte | Result | MDL | PQL SPK Val | SPK Ref Value | \%REC | Control Limit | RPD Ref Value | \%RPD | RPD Limit | Qual |
| DRO (C10-C28) | $\begin{array}{lll}U & 0.5 & 5.0\end{array}$ |  |  |  |  |  |  |  |  |  |
| LCS | Sample ID: DLCSS1-128428-128428 |  |  | Units: $\mathbf{m g} / \mathrm{Kg}$ |  |  | Analysis Date: 11/26/2018 01:38 P |  |  |  |
| Client ID: | Run ID: GC8_181126A |  |  | SeqNo: 5402836 |  |  | Prep Date: 11/26/2018 |  | DF: 1 |  |
| Analyte | Result | MDL | PQL SPK Val | SPK Ref Value | \%REC | Control Limit | RPD Ref Value | \%RPD | RPD Limit | Qual |
| DRO (C10-C28) | 7.143 | 0.5 | 5.010 | 0 | 71.4 | 70-120 | 0 |  |  |  |
| LCSD | Sample ID: DLCSDS1-128428-128428 |  |  | Units: $\mathbf{m g} / \mathrm{Kg}$ |  |  | Analysis Date: 11/26/2018 03:06 P |  |  |  |
| Client ID: | Run ID: GC8_181126A |  |  | SeqNo: 5402839 |  |  | Prep Date: 11/26/2018 |  | DF: 1 |  |
| Analyte | Result | MDL | PQL SPK Val | SPK Ref Value | \%REC | Control Limit | RPD Ref Value | \%RPD | RPD <br> Limit | Qual |
| DRO (C10-C28) | 7.024 | 0.5 | 5.010 | 0 | 70.2 | 70-120 | 7.143 | 1.69 | 20 |  |
| The following samples were analyzed in this batch: |  |  | $\begin{array}{\|l} \hline 18111489- \\ \text { 01C } \\ \hline \end{array}$ |  |  |  |  |  |  |  |



| MS Sample ID: 18111466-01A MS |  |  |  |  | Units: $\boldsymbol{\mu g} / \mathbf{K g - d r y}$ |  |  | Analysis Date: 11/21/2018 10:59 P |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Client ID: | Run ID: VMS9_181121B |  |  |  | SeqNo: 5400565 |  |  | Prep Date: 11/21/2018 |  | DF: 1 |  |
| Analyte | Result | MDL | PQL | SPK Val | SPK Ref Value | \%REC | Control Limit | RPD Ref Value | \%RPD | RPD Limit | Qual |
| Benzene | 1124 | 5.1 | 30 | 1000 | 0 | 112 | 75-125 | 0 |  |  |  |
| Ethylbenzene | 989.5 | 6.3 | 30 | 1000 | 0 | 99 | 75-125 | 0 |  |  |  |
| m,p-Xylene | 2002 | 14 | 60 | 2000 | 0 | 100 | 80-125 | 0 |  |  |  |
| o-Xylene | 1010 | 12 | 30 | 1000 | 0 | 101 | 75-125 | 0 |  |  |  |
| Toluene | 987.5 | 8.2 | 30 | 1000 | 0 | 98.8 | 70-125 | 0 |  |  |  |
| Xylenes, Total | 3012 | 26 | 90 | 3000 | 0 | 100 | 75-125 | 0 |  |  |  |
| Surr: 1,2-Dichloroethane-d4 | 1072 | 0 | 0 | 1000 | 0 | 107 | 70-130 | 0 |  |  |  |
| Surr: 4-Bromofluorobenzenє | 1034 | 0 | 0 | 1000 | 0 | 103 | 70-130 | 0 |  |  |  |
| Surr: Dibromofluoromethant | 978.5 | 0 | 0 | 1000 | 0 | 97.8 | 70-130 | 0 |  |  |  |
| Surr: Toluene-d8 | 969.5 | 0 | 0 | 1000 | 0 | 97 | 70-130 | 0 |  |  |  |

## Note:

 See Qualifiers Page for a list of Qualifiers and their explanation.

| Client: <br> Work Order: <br> Project: | Barr Engineering Company $18111489$ <br> Manifold Corridor Response (49161092.06) |  |  | QC BATCH REPORT |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Batch ID: R249874 | Instrument ID MOIST |  | Method: SW3550C |  |  |  |  |  |  |  |
| MBLK | Sample ID: WBLKS-R249874 |  |  | Units: \% of sample |  |  | Analysis Date: 11/21/2018 04:46 P |  |  |  |
| Client ID: | Run ID: MOIST_181121G |  |  | SeqNo: 5400320 |  |  | Prep Date: | DF: 1 |  |  |
| Analyte | Result | MDL | PQL SPK Val | SPK Ref Value | \%REC | Control Limit | RPD Ref Value | \%RPD | RPD Limit | Qual |
| Moisture | U | 0.025 | 0.050 |  |  |  |  |  |  |  |
| LCS | Sample ID: LCS-R24987 |  |  | Units: \% of sample |  |  | Analysis Date: 11/21/2018 04:46 P |  |  |  |
| Client ID: |  | Run ID: MO | ST_181121G | SeqNo: 5400319 |  |  | Prep Date: | DF: 1 |  |  |
| Analyte | Result | MDL | PQL SPK Val | SPK Ref Value | \%REC | Control Limit | RPD Ref Value | \%RPD | RPD Limit | Qual |
| Moisture | 99.98 | 0.025 | 0.050100 |  | 100 | 9.5-100.5 | 0 |  |  |  |
| DUP | Sample ID: 18111456-35A DUP |  |  | Units: \% of sample |  |  | Analysis Date: 11/21/2018 04:46 P |  |  |  |
| Client ID: | Run ID: MOIST_181121G |  |  | SeqNo: 5400315 |  |  | Prep Date: | DF: 1 |  |  |
| Analyte | Result | MDL | PQL SPK Val | SPK Ref Value | \%REC | Control Limit | RPD Ref Value | \%RPD | RPD Limit | Qual |
| Moisture | 15.14 | 0.025 | 0.050 0 |  | 0 | 0-0 | 14.48 | 4.46 | 10 |  |
| The following samples were analyzed in this batch: |  |  | $\begin{aligned} & \hline 18111489- \\ & \text { 01B } \end{aligned}$ |  |  |  |  |  |  |  |



## ALS Group, USA

## Sample Receipt Checklist

| Client Name: | BARRENG-MN | Date/Time Received: | $\underline{\text { 21-Nov-18 09:30 }}$ |
| :--- | :--- | :--- | :--- |
| Work Order: | $\underline{\mathbf{1 8 1 1 1 4 8 9}}$ | Received by: | $\underline{\text { DS }}$ |


| Checklist completed by | Diane Shaw | 21-Nov-18 | Reviewed by: | Eluland © ©osworth | 21-Nov-18 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | gnature | Date |  | eSignature | Date |

Matrices: Soil
Carrier name: FedEx
Shipping container/cooler in good condition?
Custody seals intact on shipping container/cooler?
Custody seals intact on sample bottles?
Chain of custody present?
Chain of custody signed when relinquished and received?
Chain of custody agrees with sample labels?
Samples in proper container/bottle?
Sample containers intact?
Sufficient sample volume for indicated test?
All samples received within holding time?
Container/Temp Blank temperature in compliance?
Sample(s) received on ice?
Temperature(s)/Thermometer(s):
Cooler(s)/Kit(s):
Date/Time sample(s) sent to storage:
Water - VOA vials have zero headspace?
Water - pH acceptable upon receipt?
pH adjusted?
pH adjusted by:


Login Notes:

Client Contacted:
Contacted By:
Date Contacted:
Regarding:

Comments:

CorrectiveAction: $\square$

Vonco V Waste Management Campus
1100 West Gary Street
Duluth, MN 55808
Permit: SW 536

| 18-109-I Superior Terminal Nemadii Corridor |  |  |  |  |  | Highlighted lines are associated with the Manifold Corridor project. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Ticket | Customer | Truck | Material | Tons |  |
| 10/31/2018 | 305020 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 17.37 |  |
| 10/31/2018 | 305021 | 001342 - Enbridge Pipelines LLC | T53690W | Alternative Daily cover | 18.64 |  |
| 10/31/2018 | 305027 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 18.74 |  |
| 10/31/2018 | 305030 | 001342 - Enbridge Pipelines LLC | T53690W | Alternative Daily cover | 19.93 |  |
| 10/31/2018 | 305039 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 23.21 |  |
| 10/31/2018 | 305040 | 001342 - Enbridge Pipelines LLC | T53690W | Alternative Daily cover | 25.20 |  |
| 10/31/2018 | 305047 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 22.51 |  |
| 10/31/2018 | 305050 | 001342 - Enbridge Pipelines LLC | T53690W | Alternative Daily cover | 20.69 |  |
| 10/31/2018 | 305058 | 001342 - Enbridge Pipelines LLC | T53690W | Alternative Daily cover | 21.73 |  |
| 11/01/2018 | 305065 | 001342 - Enbridge Pipelines LLC | T53690W | Alternative Daily cover | 21.32 |  |
| 11/01/2018 | 305068 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 16.62 |  |
| 11/01/2018 | 305074 | 001342 - Enbridge Pipelines LLC | T53690W | Alternative Daily cover | 17.52 |  |
| 11/01/2018 | 305077 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 14.80 |  |
| 11/30/2018 | 305746 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 17.60 |  |
| 11/30/2018 | 305748 | 001342 - Enbridge Pipelines LLC | S19589X | Alternative Daily cover | 14.06 |  |
| 11/30/2018 | 305750 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 18.16 |  |
| 11/30/2018 | 305758 | 001342 - Enbridge Pipelines LLC | S19589X | Alternative Daily cover | 14.85 |  |
| 11/30/2018 | 305762 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 18.65 |  |
| 11/30/2018 | 305763 | 001342 - Enbridge Pipelines LLC | S19589X | Alternative Daily cover | 15.90 |  |
| 12/03/2018 | 305772 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 17.03 |  |
| 12/03/2018 | 305784 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 20.97 |  |
| 12/03/2018 | 305801 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 23.39 |  |
| 12/03/2018 | 305802 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 21.92 |  |
| 12/03/2018 | 305810 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 21.63 |  |
| 12/04/2018 | 305821 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 13.36 |  |
| 12/04/2018 | 305831 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 19.81 |  |
| 12/04/2018 | 305840 | 001342 - Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 17.25 |  |
| 12/04/2018 | 305848 | 001342- Enbridge Pipelines LLC | T53691W | Alternative Daily cover | 19.29 |  |
|  Total Tons 532.15 <br>  Total Loads 28 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

## Water Management Documents

Ryan E. Erickson

From:
Sent:
To:
Subject:
Attachments:

Alex Smith [alex.smith@enbridge.com](mailto:alex.smith@enbridge.com)
Tuesday, January 08, 2019 4:48 PM
Ryan E. Erickson
FW: [External] FW: Message from "RNP0026736F0A76"
201901081423.pdf

FYI dig disposal manifests.
-----Original Message-----
From: Patrick Tracey [mailto:ptracey@osienv.com]
Sent: Tuesday, January 08, 2019 3:27 PM
To: Alex Smith
Cc: Kevin Olson; Jason Peterson; Dean Will; Craig Noble; Tom Peterson
Subject: [External] FW: Message from "RNP0026736F0A76"

Alex, please find the final 2018 manifest activity attached. I have copied a number of individuals as the documents overlapped several projects and were combined for economic reasons with respect to transportation. The following will assist in defining the origin of materials:

Document \#26593-A Bill of Lading (BOL) adjusted at OSI's Shop to 5,000
gallons (2,500 Terminal Dig, 1,350 Pig Wash Tank, 1,150 Frac Tank \#1 Clean)
Document \#26593-B BOL for Terminal Dig
Document \#26593-C BOL for Terminal Dig
Document \#26633-A -VOID- This BOL was utilized for the removal of material from the Pig Wash Tank during system maintenance and added to BOL \#26593-A for transport to Republic. Transportation was invoiced against the Terminal Dig with product disposal applied to the Pig Wash project $(1,350)$.

I will mail the hardcopies of the BOL's today.

Upon review, should you have any questions or require additional information, please feel free to contact me.
Patrick Tracey
OSI Environmental, Inc.
P (218) 744-3064
F (218) 744-4832
Ptracey@osienv.com
otherwise indicated or obvious from the nature of the transmittal, the information contained in this email message is CONFIDENTIAL information intended for the use of the individual or entity named herein. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify the sender using the above contact information or by return email and delete this message and any copies from your computer system. Thank you.

## Document: 26593-A

Carrier

## $\qquad$

 OSl Environmentas, tho . SCAC $\qquad$ Carrier's No. $600-777$-8542 established by the carrier and are avallable to the shipper, on reguest; and all applicable state and federal regulations;
at 300 Fayal Rd . Evelen, MN. $55 / 34$
date $\qquad$ from

 TO:

Consignee
Street
Destination
Route

| Route |
| :--- |
| Delivering Carrier |

Alexander TRO (701) 572-4506
14391 39th Street NW, CR 16 Alexander. ND Zip 58691

FROM:
Shipper
Street Origin Suoerior, Wi : Zip 54600


## 968 (Rev. 3/17)

Document:20593日
Carrier $\qquad$ Mal Epuirommontai ine:
SCAC $\qquad$ Carrier's No. B00 777.854?
RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, olassifications and rules that have. been established by the carrier and are available to the shipper, ontrequest; and all applicable state andid federal regulations;
at 300 Faval Rd, Eveleth MN 55734 $\qquad$ , date $\qquad$
$\qquad$ $+$
from

TO:
Consignee
Street
Alewinder TRD (701) 572-4506 14331 30th Sreet ND, CR 16
Destination Alexander, ND Zip
$\qquad$
FROM:
Shipper.
Street
Origin Suparior, $\mathrm{W} / \quad \mathrm{Zip}$ 54990
Route
Carrier

Delivering Carrier OSI Environmental, Inc.
-
Number and Type
of Packages
$\square$
Velicle
Number

## Enbridge

 2800 East 21 StreetU.S. Dor Hazmal
feej Number
DOT 360793

Packages
Description of Articles

Remit COD to:
Address:
Eity.
State:
Zip:
©TE: Where the rate is dependent on value, shippers are required to state specifically in wititing agreed or declated value of the property. The agreed or declared value of the property is robyspecifically stated by the shipper to be not exceeding \$
OOLE: Liability Limitötion for loss or damage in this shipment may be applicable. See 49 U.S.C.
$4=0.6(1)(1)(1)(A)$ and $(B)$.
Civis to certify that the above-named materials are properly classified, described, packaged, marked
Thabed, and are in proper condition for transportation according to the applicable regulations of Department of Transportation. Per



MERGENCY RESPONSE
TELEPHONE NUMBER:
(gom) $\qquad$ DATE:
g5M) $\qquad$ 777.9517
(Rev. 3/17)


